



(19)

Generated Document

(11) Publication number:

**63268432 A****PATENT ABSTRACTS OF JAPAN**(21) Application number: **62104989**(51) Int. Cl.: **H02H 7/122 H02H 3/00 H03F 1/52**(22) Application date: **27.04.87**

(30) Priority:

(43) Date of application  
publication: **07.11.88**(84) Designated contracting  
states:(71) Applicant: **mitsubishi electric corp**(72) Inventor: **GOORABU MAJIYUUMUDARU  
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**(54) SHORT-CIRCUIT  
PROTECTIVE CIRCUIT**

(57) Abstract:

**PURPOSE:** To reduce a whole circuit  
by detecting an overcurrent without  
using a current transformer or a  
current shunt.

**CONSTITUTION:** A switching  
element 1 for supplying a current to a  
load is controlled by a driver 2. When  
an overcurrent flows to the element 1,  
a high side voltage of the element 1 is

abnormally raised. This voltage is applied to a voltage detector 3, and a voltage is generated across a resistor 7 by the current. This voltage is compared by a voltage comparator 4 with the voltage of a reference voltage source 5. If it exceeds it, the comparator 4 feeds a signal to a driver controller 6 to turn it ON, thereby reducing the high side voltage of a resistor 13 to turn OFF a driving transistor 12. Thus, the driving signal of the switching element is interrupted.

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